

Technical Datasheet

ISOMAT SL-17

Ready-to-use, elastomeric liquid membrane for waterproofing under tiles

Description

ISOMAT SL-17 is a ready-to-use, water-based, elastomeric, liquid membrane for under-tile waterproofing. After drying, it features high flexibility while being both waterproof and vapor-permeable.

ISOMAT SL-17 has received an Environmental Product Declaration (EPD) following an assessment of its life-cycle environmental impacts. Registration No: S-P-09184, The International EPD® System.

Fields of application

ISOMAT SL-17 is ideal for seamless and jointless waterproofing of surfaces in wet areas, such as bathrooms, showers, etc., prior to tile installation. Suitable for all floor or wall surfaces made of concrete, plaster, gypsum boards, chipboards, etc. Not suitable for surfaces subject to permanent water pressure.

Technical data

Color:	grey, light blue
Density: (EN ISO 2811-1)	1.48-1.52 kg/l
Viscosity: (Brookfield R6/5)	80,000-120,000 mPa·s at +23°C
Elongation at break: (EN ISO 527-3)	> 100%
Dry film thickness: (EN ISO 2808) (Wet film thickness: 1000 µm, Solids content: 60%)	600 µm
Adhesion: (EN 1542, requirement for flexible systems with no traffic: 0.8 N/mm ²)	> 2.5 N/mm ²
Reaction to fire: (EN 13501-1)	Class F
Service temperature:	from -15°C to +80°C
Tensile strength: (EN ISO 527)	> 3 N/mm ²

Water vapor permeability coefficient (µ): (EN ISO 7783:2011)	19,300
Water impermeability: (EN BS 12390-8)	7 atm
Capillary water absorption: (EN ISO 1062-3: W ₃ low, w < 0.10 Kg/m ² h ^{0.5})	0.01 Kg/m ² h ^{0.5}
Minimum application temperature:	+5°C
Recoat time:	1-2 h at +20°C
Tile fixing:	after approx. 6 h at +20°C
Hardening time:	≥ 6 h at +20°C

Directions for use

1. Substrate

The substrate must be clean, free of grease, loose particles, dust, etc. Cavities should be repaired with PLANFIX fine-grained, polymer-modified, cement-based powder filler. Then, the special acrylic primer UNI-PRIMER should be applied with a consumption of 100-200 g/m², depending on substrate absorbency.

2. Application

After the primer has dried, ISOMAT SL-17 is applied with a brush or roller in two layers, diluted with water up to 4% by weight if necessary. The second layer should be applied after the first one has dried. It can be also applied in one layer with a notched trowel (3-4 mm notch size) and flattened with a smooth trowel, delivering a uniform layer thickness.

ISOMAT SL-17 waterproofing membrane should be locally reinforced at joints and wall-floor junctions with fiberglass mesh (65 g/m²) or polyester fleece (30 g/m²).

Tools should be cleaned with water while ISOMAT SL-17 is still fresh.

Tiles should be fixed with a high-performance polymer-modified tile adhesive, such as ISOMAT AK-20, ISOMAT AK-22, ISOMAT AK-24 CRYSTAL GEL, ISOMAT AK-25, ISOMAT AK-ELASTIC, after ISOMAT SL-17 has dried.



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Consumption

1.0-1.5 kg/m², depending on the substrate.

Packaging

ISOMAT SL-17 is supplied in buckets of 5 kg and 15 kg.

Shelf life – Storage

24 months from production date if stored in original, unopened packaging at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

Volatile Organic Compounds (VOCs)

According to Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory g, type WB is 30 g/l (2010) for the ready-to-use product.

The ready-to-use product ISOMAT SL-17 contains 9 g/l VOC.



2032

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EN 1504-2

Surface protection products

Coating

Permeability to CO₂: Sd > 50m

Water vapor permeability: Class I (permeable)

Capillary absorption: w < 0.1 kg/m²·h^{0.5}

Adhesion: ≥ 0.8 N/mm²

Reaction to fire: Euroclass F

Dangerous substances comply with 5.3

ISOMAT S.A.

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